<u>RAW SEQUENCE LISTING</u>

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Application Serial Number: _10/539, 214_

Source: _PCT_

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RAW SEQUENCE LISTING   DATE: 06/24/2005
PATENT APPLICATION: **US/10/539,214**   TIME: 15:20:34

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\06242005\J539214.raw**

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   3 <110> APPLICANT: Agrinomics LLC
   5 <120> TITLE OF INVENTION: GENERATION OF PLANTS WITH ALTERED OIL CONTENT
   7 <130> FILE REFERENCE: 6616-71303-07
C-->  9 <140> CURRENT APPLICATION NUMBER: US/10/539,214
C-->  9 <141> CURRENT FILING DATE: 2005-06-17
   9 <150> PRIOR APPLICATION NUMBER: PCT/US2003/040987
  10 <151> PRIOR FILING DATE: 2003-12-18
  12 <150> PRIOR APPLICATION NUMBER: 60/434,601
  13 <151> PRIOR FILING DATE: 2002-12-18
  15 <160> NUMBER OF SEQ ID NOS: 2
  17 <170> SOFTWARE: PatentIn version 3.2
  19 <210> SEQ ID NO: 1
  20 <211> LENGTH: 3214
  21 <212> TYPE: DNA
  22 <213> ORGANISM: Arabidopsis thaliana
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  29 aatcctttcc gaagcatatt gaaggcgtta gagaagcctg atggtggtga attcggtaac     180
  31 tactacagct tacctgcttt gaacgatccc aggatcgata aactacctta ttccattagg     240
  33 atacttcttg aatcggccat acgtaactgt gatgagttcc aagttaagag caaagatgtt     300
  35 gagaagattc ttgattggga gaatacttct cccaagcagg ttgagattcc gttcaagcct     360
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  45 tccaacgcct ttcacaacat gcttgtcgta cctcctggat ctggaatagt tcatcaagtc     660
  47 aacctagaat accttgccag agttgttttc aacacaaatg gacttctttta cccagacagt    720
  49 gttgttggca cagactctca caccactatg attgatggac tgggtgttgc tggatgggga     780
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  59 cctgagtacg gtgcgaccat gggattcttc ccagtcgatc atgtcacttt gcagtatcta    1080
  61 aggttgacag gcaggagcga tgacactgtc tccatgatag aggcgtattt acgagcaaac    1140
  63 aagatgtttg tggattacag tgagccggag agtaagacag tttattcctc atgtctggaa    1200
  65 ttgaatctcg aggatgtgga accttgtgtt tctggtccca agaggcctca tgatcgtgtt    1260
  67 cctttgaagg aaatgaaagc ggactggcat tcttgcttgg acaatagagt aggattcaag    1320
  69 ggtttcgctg tacctaaaga agcacagagt aaggctgtag agttcaattt taacgggacc    1380
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  73 tcaaacccta gtgtaatgct ggcgctgcc ttagttgcaa aaaaggcctg cgacctagga     1500
  75 ctggaggtta agccatggat caaaactagt cttgctccag gctctggagt tgtaacaaag    1560
  77 tacttggcaa agagtggctt gcagaagtac ttgaatcagc tcggcttcag tatcgttggt    1620
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 81 atagttgata atgacttggt ggcatccgct gtgttgtctg ggaacagaaa ttttgaggga   1740
 83 cgtgttcacc cgttaacaag agctaactat ctagcttccc caccgcttgt tgtagcctat   1800
 85 gctctggctg gaactgttga cattgatttt gagacacagc ccattggaac tgggaaagat   1860
 87 ggaaaacaga tattttttcag ggacatttgg ccctctaaca aagaagttgc tgaggttgtt   1920
 89 caatctagtg tccttcctga tatgttcaaa gctacatatg aagcaatcac caaaggaaat   1980
 91 tccatgtgga atcagttatc tgtggcgtca ggtactctct atgagtggga cccgaaatca   2040
 93 acttacattc acgagccgcc ttatttcaag ggcatgacca tgtctccacc cggtccacat   2100
 95 ggtgtgaaag acgcatactg tttactcaat tttggagaca gtattaccac tgatcacatc   2160
 97 tcaccagctg gtagcatcca caaggacagt cctgcggcta agtacttgat ggaacgaggt   2220
 99 gtggatagaa gagacttcaa ctcatacggg agtcgccgtg gtaatgatga gattatggcg   2280
101 agaggcactt ttgcaaatat ccgtattgtc aacaaacact tgaaaggaga agttggtccc   2340
103 aaaacagttc acattcccac tggagagaag ctttctgttt tcgatgctgc catgaaatat   2400
105 aggaacgagg gacgcgacac aatcattttg gctggtgctg aatacggtag tggaagttct   2460
107 cgtgattggg ctgccaaggg tccaatgctt ctgggtgtga aagctgtgat ttcaaagagc   2520
109 ttcgagcgaa ttcaccgaag caatttggtg ggaatgggaa tcataccttt gtgcttcaag   2580
111 gcgggagaag atgctgagac ccttggccta acgggtcagg agctttacac cattgagctc   2640
113 ccaaacaatg ttagtgagat caaaccagga caagatgtaa cagtcgtcac aaacaatggc   2700
115 aaatctttca catgtacact ccgatttgac acagaggtgg agttggctta tttcgatcac   2760
117 ggagggattt tgcaatacgt tatcaggaac ttgatcaaac aataaatctg gtaacaccag   2820
119 agacttgagt tatatatccc aaggtttgtt gcaataaaaa tgtttgcagg gaggaggacg   2880
121 agaatgactt taatttaaac ttttgctttt gttcttcttc gtctcttgct tcgtgctagt   2940
123 caattggaaa cattatcact gtcgagtcat ttttttttctt tcaaataaac atgcgagctc   3000
125 ttttttttgtt gttgttgttc ataagcattg tcaatgctgc attgatagaa gtatactcta   3060
127 ccattagaaa ataaacacaa atacacaaag taatctaaag agctagagga tgaaaattat   3120
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134 <210> SEQ ID NO: 2
135 <211> LENGTH: 898
136 <212> TYPE: PRT
137 <213> ORGANISM: Arabidopsis thaliana
139 <400> SEQUENCE: 2
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142 1               5                   10                  15
145 Pro Asp Gly Gly Glu Phe Gly Asn Tyr Tyr Ser Leu Pro Ala Leu Asn
146             20                  25                  30
149 Asp Pro Arg Ile Asp Lys Leu Pro Tyr Ser Ile Arg Ile Leu Leu Glu
150         35                  40                  45
153 Ser Ala Ile Arg Asn Cys Asp Glu Phe Gln Val Lys Ser Lys Asp Val
154     50                  55                  60
157 Glu Lys Ile Leu Asp Trp Glu Asn Thr Ser Pro Lys Gln Val Glu Ile
158 65                  70                  75                  80
161 Pro Phe Lys Pro Ala Arg Val Leu Leu Gln Asp Phe Thr Gly Val Pro
162             85                  90                  95
165 Ala Val Val Asp Leu Ala Cys Met Arg Asp Ala Met Asn Asn Leu Gly
166             100                 105                 110
169 Gly Asp Ser Asn Lys Ile Asn Pro Leu Val Pro Val Asp Leu Val Ile
170         115                 120                 125
173 Asp His Ser Val Gln Val Asp Val Ala Arg Ser Glu Asn Ala Val Gln
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177 Ala Asn Met Glu Leu Glu Phe Gln Arg Asn Lys Glu Arg Phe Ala Phe
178 145                    150                    155                    160
181 Leu Lys Trp Gly Ser Asn Ala Phe His Asn Met Leu Val Val Pro Pro
182                    165                    170                    175
185 Gly Ser Gly Ile Val His Gln Val Asn Leu Glu Tyr Leu Ala Arg Val
186                    180                    185                    190
189 Val Phe Asn Thr Asn Gly Leu Leu Tyr Pro Asp Ser Val Val Gly Thr
190           195                    200                    205
193·Asp Ser His Thr Thr Met Ile Asp Gly Leu Gly Val Ala Gly Trp Gly
194           210                    215                    220
197 Val Gly Gly Ile Glu Ala Glu Ala Thr Met Leu Gly Gln Pro Met Ser
198 225                    230                    235                    240
201 Met Val Leu Pro Gly Val Val Gly Phe Lys Leu Thr Gly Lys Leu Arg
202                    245                    250                    255
205 Asp Gly Met Thr Ala Thr Asp Leu Val Leu Thr Val Thr Gln Met Leu
206           260                    265                    270
209 Arg Lys His Gly Val Val Gly Lys Phe Val Glu Phe His Gly Glu Gly
210           275                    280                    285
213 Met Arg Glu Leu Ser Leu Ala Asp Arg Ala Thr Ile Ala Asn Met Ser
214           290                    295                    300
217 Pro Glu Tyr Gly Ala Thr Met Gly Phe Phe Pro Val Asp His Val Thr
218 305                    310                    315                    320
221 Leu Gln Tyr Leu Arg Leu Thr Gly Arg Ser Asp Asp Thr Val Ser Met
222                    325                    330                    335
225 Ile Glu Ala Tyr Leu Arg Ala Asn Lys Met Phe Val Asp Tyr Ser Glu
226           340                    345                    350
229 Pro Glu Ser Lys Thr Val Tyr Ser Ser Cys Leu Glu Leu Asn Leu Glu
230           355                    360                    365
233 Asp Val Glu Pro Cys Val Ser Gly Pro Lys Arg Pro His Asp Arg Val
234           370                    375                    380
237 Pro Leu Lys Glu Met Lys Ala Asp Trp His Ser Cys Leu Asp Asn Arg
238 385                    390                    395                    400
241 Val Gly Phe Lys Gly Phe Ala Val Pro Lys Glu Ala Gln Ser Lys Ala
242           405                    410                    415
245 Val Glu Phe Asn Phe Asn Gly Thr Thr Ala Gln Leu Arg His Gly Asp
246           420                    425                    430
249 Val Val Ile Ala Ala Ile Thr Ser Cys Thr Asn Thr Ser Asn Pro Ser
250           435                    440                    445
253 Val Met Leu Gly Ala Ala Leu Val Ala Lys Lys Ala Cys Asp Leu Gly
254           450                    455                    460
257 Leu Glu Val Lys Pro Trp Ile Lys Thr Ser Leu Ala Pro Gly Ser Gly
258 465                    470                    475                    480
261 Val Val Thr Lys Tyr Leu Ala Lys Ser Gly Leu Gln Lys Tyr Leu Asn
262           485                    490                    495
265 Gln Leu Gly Phe Ser Ile Val Gly Tyr Gly Cys Thr Thr Cys Ile Gly
266           500                    505                    510
269 Asn Ser Gly Asp Ile His Glu Ala Val Ala Ser Ala Ile Val Asp Asn
270           515                    520                    525
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273 Asp Leu Val Ala Ser Ala Val Leu Ser Gly Asn Arg Asn Phe Glu Gly
274     530             535             540
277 Arg Val His Pro Leu Thr Arg Ala Asn Tyr Leu Ala Ser Pro Pro Leu
278 545             550             555             560
281 Val Val Ala Tyr Ala Leu Ala Gly Thr Val Asp Ile Asp Phe Glu Thr
282             565             570             575
285 Gln Pro Ile Gly Thr Gly Lys Asp Gly Lys Gln Ile Phe Phe Arg Asp
286             580             585             590
289 Ile Trp Pro Ser Asn Lys Glu Val Ala Glu Val Val Gln Ser Ser Val
290         595             600             605
293 Leu Pro Asp Met Phe Lys Ala Thr Tyr Glu Ala Ile Thr Lys Gly Asn
294         610             615             620
297 Ser Met Trp Asn Gln Leu Ser Val Ala Ser Gly Thr Leu Tyr Glu Trp
298 625             630             635             640
301 Asp Pro Lys Ser Thr Tyr Ile His Glu Pro Pro Tyr Phe Lys Gly Met
302             645             650             655
305 Thr Met Ser Pro Pro Gly Pro His Gly Val Lys Asp Ala Tyr Cys Leu
306             660             665             670
309 Leu Asn Phe Gly Asp Ser Ile Thr Thr Asp His Ile Ser Pro Ala Gly
310         675             680             685
313 Ser Ile His Lys Asp Ser Pro Ala Ala Lys Tyr Leu Met Glu Arg Gly
314         690             695             700
317 Val Asp Arg Arg Asp Phe Asn Ser Tyr Gly Ser Arg Arg Gly Asn Asp
318 705             710             715             720
321 Glu Ile Met Ala Arg Gly Thr Phe Ala Asn Ile Arg Ile Val Asn Lys
322             725             730             735
325 His Leu Lys Gly Glu Val Gly Pro Lys Thr Val His Ile Pro Thr Gly
326             740             745             750
329 Glu Lys Leu Ser Val Phe Asp Ala Ala Met Lys Tyr Arg Asn Glu Gly
330         755             760             765
333 Arg Asp Thr Ile Ile Leu Ala Gly Ala Glu Tyr Gly Ser Gly Ser Ser
334         770             775             780
337 Arg Asp Trp Ala Ala Lys Gly Pro Met Leu Leu Gly Val Lys Ala Val
338 785             790             795             800
341 Ile Ser Lys Ser Phe Glu Arg Ile His Arg Ser Asn Leu Val Gly Met
342             805             810             815
345 Gly Ile Ile Pro Leu Cys Phe Lys Ala Gly Glu Asp Ala Glu Thr Leu
346             820             825             830
349 Gly Leu Thr Gly Gln Glu Leu Tyr Thr Ile Glu Leu Pro Asn Asn Val
350         835             840             845
353 Ser Glu Ile Lys Pro Gly Gln Asp Val Thr Val Val Thr Asn Asn Gly
354         850             855             860
357 Lys Ser Phe Thr Cys Thr Leu Arg Phe Asp Thr Glu Val Glu Leu Ala
358 865             870             875             880
361 Tyr Phe Asp His Gly Gly Ile Leu Gln Tyr Val Ile Arg Asn Leu Ile
362             885             890             895
365 Lys Gln
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VERIFICATION SUMMARY   DATE: 06/24/2005
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L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date